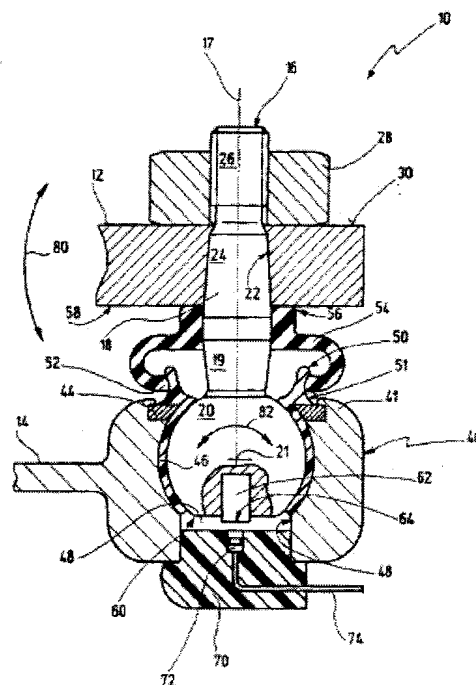


Ball joint steering mechanism and associated position sensor arrangement for motor vehicle use has a robust arrangement of permanent magnet signaler whose movement is detected by a sensor**Patent number:** DE10110738**Publication date:** 2002-11-07**Inventor:** BUERGER FRIEDHELM (DE)**Applicant:** BERGER BOEHRINGER & PARTNER GM (DE)**Classification:****- international:** B60G7/00; B60G17/019; B62D7/16; B62D15/02; F16C11/06; B60G7/00; B60G17/015; B62D7/00; B62D15/00; F16C11/06; IPC1-7; F16C11/06; B60G7/02; B62D7/16; G01B7/30**- european:** B62D15/02D4; B60G7/00B; B60G17/019; B62D7/16; F16C11/06C3Q; F16C11/06C3F**Application number:** DE20011010738 20010301**Priority number(s):** DE20011010738 20010301[Report a data error here](#)**Abstract of DE10110738**

Ball joint has a ball joint housing that accepts a ball pin (20) so that it can be rotated and tilted. Within the joint is an integrated signaler-sensor (62, 72) arrangement that detects the position of the pin relative to the housing. The pin is sealed against external effects using a hardened bearing material. The signaler is a permanent magnet with its movement detected by a magnetically sensitive sensor. The magnet is arranged on a radius from the mid point (21) of the ball pin. Independent claims are made for a device for controlling the operating parameters of a motor vehicle based on the relative position of two steering elements, a steering gear, a track rod and a method for producing a ball joint with associated position determination arrangement all associated with a motor vehicle steering assembly.



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